## GREATER POLAND AS AN ALLY ESSENTIAL TO FRANCE

HE persistence of the Upper Silesian element in the European situation of the moment, should surprise no American observer of foreign affairs, for the simple reason that Poland, taking the larger question of which the Silesian affair is only one of many phases, is, and will remain for the future, the Sravest menace to European stability

It would be a mistake to charge the re-sponsibility for this to the Poles themselves, In the last three centuries they have been almost habitually the victims, rather than the authors, of European disorder. Yet the fact remains that the situation in which the Polish race finds itself, its relation to its neighbors and its importance to France in the new European adjustment, combine to make it a source for future dangers even greater than that traditional Eastern ques-tion, out of which arose the world war.

Since this situation exists and will con-nue, there is reason for a brief examina-on of the Polish question, as it now rises once more to trouble the world peace. Looking first at the general European situation, one can perceive that, aside from Polish matters, there is gradually coming out an adjustment which might easily be of long duration. True, there remain many disputes between rival countries—disputes between the Italians and the Southern Slavs over Adriatic frontages; between the Greeks and Italians over Albanian marches and Aegean Islands, between the Hungarians and their several neighbors, who have taken from the Magyar state provinces which contain Rumanian, Slovak and Serbo-Croat majorities. There is a Bulgarian question majorities. There is a Bulgarian question for Serb, Rumanian and Greek alike. There is a Turkish question for the Greeks.

#### Frontier Problem of Austria Looms in Central Europe Again

Lookins at the centre of Europe, there is the familiar problem of Austria, which is seeking by almost daily demonstration to arrive at union with Germany. The new Bohemian state, too, has a German minority which accepts with ill-grace incorporation in the Czecho-Slovak nation. In a word, all around the edges of the new countries, or the newly expanded small States, there is friction. There may be readjustments, but time alone can bring about real stability. Yet aside from the Austrian issue, conditions are plainly approaching a condition of stabilization. The several treaties, the arrangements between small countries, these give solid basis for hope. Lookins at the centre of Europe, there is give solid basis for hope.

Moreover, when one looks at the larger

Moreover, when one looks at the larger states, the situation is even more promising. Italy has at last established her guards on the crests of the Alps from Fiume to the Swiss frontier. Italia Irredenta, that source of many wars in the last century, has disappeared as an issue. If there are now Slav and German majorities within Italian frontiers as the results. ian frontiers as the recent election showed. their claims do not now constitute a European menace. The Treaty of Rapallo between the Jugo-Slav and the Italians has been accepted on both sides of the new frontier and has brought an end to intrigue by Italy and uncessing threat has Slaves.

Italy and unceasing threat by Slav.

As to France, she has returned to the Rhine and with the reconquest of the "Lost Provinces" has, like Italy, parted with an issue which has been in the back of all French minds ever since the Treaty of Frankfort. Real peace between Germany and France was impossible while Germany and France was impossible while Germany held Strasbourg and Metz.

To be sure, there is the German hope of To be sure, there is the German hope of reconquest, but one may take present German threats with a grain of salt. Seated on the Rhine and the Sarre, France has an immensely fencible frontier. To attack, German services of the same of many must now invade, not alone through Belgium but also through Holland, as some of her generals urged in 1914, and this means of her generals urged in 1914, and this means adding Dutch and Belgian armies to French and almost inevitably insures the reappearance of Britain on the Continent. Even the Sarre Basin, which is a thorny problem, can be disposed of when the hour arrives, thirteen years hence, without necessarily constituting a cause for war.

#### Paris Settlement Shows a Gain In West and South Despite Outcry

simple fact is that the geographical settlements of the Paris Conference in the west and south, despite all the outcry which they have occasioned, represent a

gain for European order as well as for racial integrity. Certainly economic adjustments between the succession States of Austria are essential, must come, but, deduction again being made for Austria, reasonable solu-tions are not impossible. Accepting for the moment the view that the reparations issue has passed out of the debate, European peace would seem probable were the western

obstacles alone to be considered.

But it is at this moment that the Polish question takes on its true significance. We believe that Germany, in the end and with reluctance, might accept the Alsace-Lorraine decision of the Treaty of Paris because the present and the future dangers of challenging it are enormous, would not impossibly bring Germany again into collision with the nations which defeated her in the recent war, all of whom have a debt of honor to France, so far as the question Alsace-Lorraine is concerned. believe that the western frontier of Germany would be accepted by Germans as well as by Frenchmen and Belgians, just as it seems probable that what constitutes the natural frontiers of Italy will stand the test of

But can any German accept the Polish settlement? Let us concede at once that this settlement, so far as it has been made, represents an injustice to the Poles rather than to the Germans. The partition of Poland, engineered by Frederick the Great, was one of the supreme political crimes of all history. The steady colonization of Germans on territory which was clearly Polish has represented only the second step wrong done the Polish people. If Silesia in whole or in part is retained German rule than Germans within the fron-

tiers of the new Polish Republic. this does not in the least change the fact that the Treaty of Paris cut Prussia in It separated East Prussia from the main mass of the old Hohenzollern monrehy, thrusting the notorious Dantzig "corridor" northward. In giving the Poles Posen, province in which the Slav majority was overwhelming, the Paris Conference made Berlin almost a frontier city. Granted that a portion of the Silesian mineral fields fall to Poland ultimately, Germany will lose a considerable source of wealth and a porion of her resources for modern war, which is founded upon coal and iron beyond all

Every German statesman from Frederick the Great onward has spoken of all other problems of his country as minor by com-

TE persistence of the Opper Silestan Analysis of Europe's New Problem Made by Frank H. Simonds Reveals How Necessary It Is for the Gallic Republic to Have Strong Friend in the East to Offset Possible Teuton Ambitions in the Future---Britain's Policy Aims for Peace and Trade but Leaves Way Open for Renewal of War

> parison with the Polish question. To bemans will permanently endure a situation in which their country is divided by the Danzig strip, will accept the loss of Danzig, Posen, Thorn, Bromberg, to say nothing of other lands that may be lost in Upper Silesia, is to believe what is on the face of it impossible. Moreover, whatever be the expansion of Poland in the next two or three decades, whatever the gain in consolidation and re-integration. Poland cannot hope to be a match for the Germany which must presently become again a world Power.

> In this situation the French policy makes itself felt. France, too, with a prospective forty millions of people a few decades hence, cannot resign herself to impotence in the presence of a Germany of seventy millions, setting out on a new career of conquest, with Poland as the first objective and the whole of middle Europe as an attractive artichoke, to be eaten leaf by leaf. Granted that the restored Germany might long delay an attack in the west, given its dangers, the time might well come even there when even British intervention would have no peril, no threat for a Germany expanded to cover all the lands between the Vistula and the Rhine and between the Baltic and the Black Sea.

Following 1870, French policy sought and found in the Russian alliance the only pos-sible counterweight to German menace. France could not then stand alone against Germany; she cannot to-morrow. The British alliance will not suffice, for Britain does not and will not maintain an army based upon conscription. In 1914 Britain could get only four divisions to Mons in August, she had but six at the Marne in September, and the seventh did not reach Belgium until October. This small but infinitely precious reenforcement, moreover, was not sufficient to bridge the gap between German and French effectives

It was the Russian offensive in East German feeling in the present situation is a war is almost inescapable if Poland be Prussia, not the British divisions, which precisely what the American would be in erected into a State, occupying most if no saved France at the Marne, by compelling alry division east before the decisive battle. To-day, with Russia gone, France must still seek an eastern ally, and that ally is, in the nature of things. Poland. With thirty millions of people, with a system of conscription, with an army trained under French direction. Poland can supply the numbers essential to insure French safety, to take off enough of the German mass to enable France to make good the Rhine barrier at the very least.

There, after all, is the naked truth of the new European situation. French safety depends upon Polish strength. If France is to be insured against a new German menace, that insurance must be found in But to obtain the Polish insurance France is bound to lend all her assistance to the Poles; she must stand with them against the Russians, as she did in the crisis of last summer, when Weygand and Jusse-rand went to Warsaw; she must stand with them in Upper Silesia. Every ounce added to the weight of Poland is an ounce taken off the burden of France on her own frontiers when Germany regains her strength.

But—and the fact is capital—Germany cannot and will not accept the Polish settle-If an accident of war should bring an American defeat and, as Zimmermann in his notorious proposal suggested, California, New Mexico, Texas and Arizona should be returned to Mexico, can any one imagine the American nation accepting the decision? I am not suggesting the situations are intrinsically identical. Polish rights to Posen, West Prussia and Upper Silesia are far more solidly founded on present ethnic conditions than the Mexican title to certain American States, but the

the instance I have suggested.

Prussia remains the dominant factor in Germany, and will remain. The greatness of Prossia was founded on the seizure of Silesia and the partition of Poland. Berlin, the Prussian as well as the German capital, is an open city barely a hundred miles from the new Polish boundary posts. East Prussia is divided from Pomerania by the Danzig sia is divided from Pomerania by the Danisis corridor, and Danzig, one of the truly great German cities, is lost fo Germany, while Konigsberg, which has a peculiar hold upon Prussian sentiment, is to-day the capital of

an enclave in Slav territory.

contrasted with Now, British policy, as the French, has always looked at the ques tion of peace. France has sought and seeks security. Britain, secure within her islands, aims at such adjustments in Europe as will avoid any war, and, above all, any war which may affect Britain. A century and a quarter ago British policy consented to the last partition of Poland, because it was a detail in obtaining Prussian and Austrian assistance in the war against the French Revolution, which was a menace to British security. At Paris, two years ago, Britain was ready to make any sacrifice of Polish interests to avoid the certainty of a later German challenge to the Versailles settle-

American must clearly grasp the essential difference in objective of the Briton and of the Frenchman, to see the truth in the latest European affair Britain desires to avoid another contine. | war, so perilous to her commerce and her industry. In any war between Germany and France she would almost inevitably be dragged in, as, she was before, because a victorious Germany at Calais and Antwerp would be a deadly peril for her. But such

erected into a State, occupying most if not all of the truly Polish lands which were stolen by the Prussians under Frederick the Great and have been held in servitude and against the will of their in-

habitants ever since.

Recall British policy in the Balkans and the parallel is illuminating. The British under Beaconsfield were always ready to turn back Christian populations to Turkish butchers, because British policy aimed at restraining Russian advance on Constantinople, and the Christian populations of the Balkans, being mainly Slavs, seemed to British eyes certain to become tools of Russian ambition. British policy in the Baltic to-day is quite like British policy in the Near East in the days of the Congress of

At Paris the British were ready and eager to make Poland the sacrifice essential to insure a going peace. They fought both the French and the Americans successfully, seeking reductions of the territories assigned to Poland, because they saw in such assignments the certainty of a later German war, which would involve the rest of Europe, almost ineluctably. And they were just as ready to sacrifice Poland to Russia, when the Red armies approached Warsaw and European stability seemed endangered by the Boishevist invasion.

French policy, on the contrary, supported the Poles in all cases, not primarily because there was a profounder French appreciation of the imminent justice of the Polish claims but because Poland was a factor, a vital fac-tor in French security. As for the Ameri-cans they wandered between the two policies, on the whole seeking larger concessions for the Poles than were allowed, because Mr. Wilson adhered to his Fourteen Points, of self-determination nearest to his heart. In the end it was

dent to reduce the Polish corridor and pro vide a plebiscite for Upper Silesia, origina assigned to the Poles.

To-day, in Upper Silesia, British policy follows the same course. It will necessarily continue to follow it. The more that is taken from Germany, irrespective of the moral claims of Germany to it, the more certain Germany is, when she becomes strong, to seek to recover the lost ground. But such an effort spells a new European war. Therefore, the British deem it the wise course to take as little as possible from Ger-

many. Even the return of Alsace-Lorraine to France found British unofficial opposition pefore the armistice and finds present critics to-day, for precisely the same reason.

A week ago I dwelt upon the other phase

of British policy, the desire to restrain France, become the greatest military power in Europe, the return to the traditional policy of the balance of power. This, too, is a dominating influence, but beneath all else lies the British instinct to avoid war by con-cessions, concessions which may sacrifice principle to practical considerations, but serve an obvious and unmistakable purpose.

#### Poland Already Has Enough

To Excite Germany to Seek Revenge It remains true, however, and here is the source of much contemporary British criticism of Fench piolicy, that the solution which has so far been arrived at in the matter of Poland, negatives all British pur-pose and wish. To be sure Poland has not acquired all that France, or even the United States, as represented by President Wilson. would have assigned to her at Paris. But she has enough to insure German pursuit of revenge, of a new European settlement. Her frontiers can be maintained against Germany, when Germany recovers, only by force and by the force of France as well as Even this force will not in the of Poland. long run restrain Germany from trying to regain what she has lost of her old stealings. And this means a new continental

Take the British view from the British standpoint: Before and during 1914, Russia supported Serbia. Serbia was in dispute with Austria; the merits of the dispute are clear but they are unimportant. As a consequence of this dispute came the Serajevo Tragedy, the Austrian Ultimatum, the decision of Russia to support Serbla, of Germany to back Austria, of France to remain faithful to her Slav Ally. Then came the invasion of Belgium and finally Britain was driven into a war, which in its origins did not touch her at all, that is in its apparent origins. While the question was Serbian, Sir Edward Grey manifested actual sympathy with the Austro-German case. While it was still Russo-German, he stood un-moved. Even when it became French half of his Cabinet were cold. But becoming Belgian, it became British.

Now here, beginning under British eyes, is a new condition quite comparable with the old. The British are not interested in the frontiers between Poland and Germany. They are not prepared to fight to sustain Poland, either against Germany or against Russin—just as the United States is not But French policy makes an eastern policy a western question. If Germany acts against the Poles, France will move against the Germans. Germany, can only fight France through Beigium and in a moment we are back at all the old evil circumstances of the World War, with all its terrible co

Destruction for Britain and Europe

Put the thing very simply. The British

want peace in Europe; peace because peace is essential to their own domestic existence,

let alone prosperity, since the closing of the

European markets brings ruin to British industry. To obtain that peace they are prepared to sacrifice Polish interests to German, just as they subordinated the in-

Repetition of Great War Means

## Golf Ball Leads Its Sports Brothers in Quantity

# Only 130,000 Dozen

a great number of balls are discarded as not up to standard.

probably costs the players in this country about \$3,000,000. In addition to this, of course, there is the cost of bags, clubs, liniment, &c. Tennis balls, the best of which cost 60 cents apiece and are by far the

rental of courts, grips, books, &c.
As for the baseball, the range from \$2.50 to 20 cents and the uncertain number make estimates hard, but probably half a million dollars would not be overestimating this single item in the long list of equipment

the public probably does not realize it is paying is the tax of 10 per cent. Mr. Curtiss

"There has been no change in the price of golf balls in four years," he said. "The golf ball is probably the only article in this class. In that time the tax of 10 per cent. has been absorbed by the manufacturers. We have been enabled to do this by the decrease in the cost of rubber. As a matter

In connection with this 10 per cent, tax on is only 3 per cent. The feminine cosmetics, hair dyes, and talcum powdenave a levy of only 4 per cent. upon them.

## Standardization Most Important

interesting point in connection with palls is that tennis balls and baseballs been standardized much more than the golf ball. In golf no particular b year the rules have been changed by the United States Golf Association and the nd Ancient in Britain, to specify that a ball not smaller than 1.62 inches in diameter nor more than-1.62 ounces in weight be used in tournament golf. Any make can be used

ball has been selected as official in the golf

chaos. For instance, a team of heavy ters, like New York, might go over to Brooklyn. That team would introduce what is called a "punk ball," a ball that no one could hit much beyond the outfielders. Or the contrary when Brooklyn came to New York the home team would introduce an ex-ceptionally lively ball and proceed to knock it over the fence time after time.

"The only way to avoid this condition is to adopt a particular ball, as the big leagues have done, so that every one is tested as to size, weight, &c., so that all are precisely alike. In golf there is no need for this, as it is only fair that each player shall use the ball he finds fits his game best."

With daylight saving in effect in New York and many other communities throughout the country, it begins to look more and more as if the unfortunate baseball, the un-lucky golf ball and the unhappy tennis ball were in this year for an unparalleled career shooting through the air.

### Tennis Balls Demanded --- Guess About Baseballs Is One Million

The amount of money spent on balls alone The golf ball, for instance, gloves, membership dues, books of instruction, grips, shoes, stockings, other clothes greatest number used, cost close to a million dollars, in addition to racquets, nets, shoes, hats, flannels, sweaters, membership dues or

needed for the national pastime.

One item in the cost of sporting goods that

brought this out in speaking of golf balls.

of fact, however, the great increase in labor costs more than offsets this drop in rubber."

sporting goods, which has been called by sportsmen "a tax on the physical wellbeing of the boyhood and manhood of the country gum, equipment for a very mild form of half of America suffers less by taxes, for

#### In Baseball and Tennis Ball

by individual players.
"The reason why no particular make of field is that only one player uses the ball in the course of the tournament," Mr. Curtiss said. "In tennis and baseball there has to be not only a standard ball, but one of a particular make, because with these balls the player is asking his opponent to use the same ball. Your ball may suit your style of play yet send him off his game "Baseball without a particular make v

terests of the small Balkan people to Turkish when Turkey was a vital factor in British foreign policy in the Near East. A continuation of present European unrest a repetition of the recent war any time in he next cen-tury, means the ruin not alone of Europe but of Great Britain itself. The French, on their part, want security This security can be obtained only by the construction and maintenance of a Poland sufficiently strong to bridge the wide and

ever growing difference between German and French population. France, therefore, must support and maintain all Polish claims which have a basis in right or a relation to French necessities in the matter of Germany, if Poland is crushed then France can no longer maintain herself against Germany as the British consent to an alliance and to an adoption of conscription-and the As for the Germans, they will not accept

Poland as it has been constructed; they would not have accepted any Poland which contained territory once included within German frontiers, although stolen by Prussian sovereigns in the past. And Poland without such territory would be economically first and politically later the mere creature of Germany, which would hold the Danzig gateway to the sea and possess all the development of Polish industry.

There, in a nutshell, is the real situation with respect of Poland and the truth about British and French policies. This is the chaos into which we Americans have just come, after having stayed out of European ssions for many, many months. If you read British newspapers you find great and always increasing irritation with the French ecause of their championship of Poland Stripped of all camouflage this means that Poland constitutes in British eyes a danger to world peace, a possible occasion for British participation unwillingly in a new world struggle. It is the fact of Poland that the British with their unerring instinct in foreign politics object to, because the fact Poland constitutes the greatest stagle danger to European peace henceforth as far

Read the French newspapers, again climideal with moral and sentimental issues, and it will be seen that Poland is for France, the cornerstone of the new Europe, and French resentment at British policy, which has been constant at the Paris conference and since grows out of the fact that, for the French Britain in her readiness to sacrifice Poland seems in reality to be sacrificing France.

Actually European history to-day is be inning to revolve around a new pivot. alliances are taking shape, new policies are coming to the surface, but most important of all political questions—accepting the repadispute as henceforth rations which is a large assumption—is the Polish problem, of which the Upper Silesian dispute is only a detail.

Copuright, 1921. by McClure Newspaper Syndicate.

## The accompanying diagram shows graphically the annual consumption of golf, tennis and base balls in the United States, and the quantity and value of each type. 000 Dozen Costing

## Expert Estimates 300,-\$3,000,000 Are Used Annually on U. S. Links

ONSIDER the ball. It is frequently and vehemently described, especially during the week end, as the meanest of all inanimate things. But, considering

its lot, it has a right to be In the good old days, which never are but always were, a sportsman desiring a little amusement would call together the gang of iron workers, mechanics and blacksmiths which was his valet, have himself inserted into a suit of galvanized clothes, and go forth on horseback to spear a neighboring sport similarly attired and of like disposi-tion. It was a fine game for the winner, and

the loser never appealed the decision.

A little later in the history of our civiliza tion the seeker of recreation, deprived of messing up his fellow man by newly in-stituted game laws, would take his gun and make things interesting for other animals Frequently, of course, he would also bag a man, but this was not considered cricket The animals, however, have tired of this sport and retired into pots, deep forests and

ological gardens. Nowadays the seeker of amusement thrusts himself into apparel fully as strange and almost as uncomfortable as that of his knightly predecessor and goes out in his tin picks on a small and unoffending All the pent Aip human which formerly vented itself on fellow men and beasts is now heaped upon the ball.

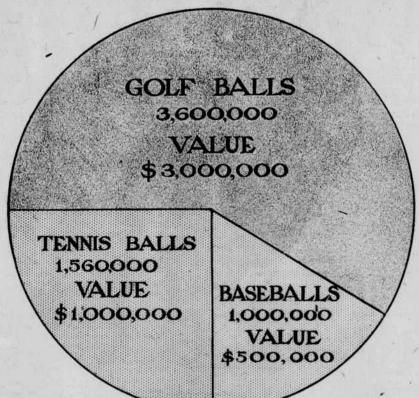
As a general thing a man or woman does not wage warfare of the unrestricted type on more than one variety of ball. plays tennis, golf is regarded as highbrow golf is stated to be a thing for old men and tennis for sissies. If it is tennis that eats 'em all, golf is a game for those who enjoy walking on the grass without fear of being arrested and baseball a thing in which nine men band together to play parts that single really energetic tennis player could

The mortality among these three types of balls is exceedingly high. It is rare for a ball that has really been in use to live to the ripe old age of one year. The first bat to requests from the stand, knock the cover off. Or he may hit it over the fence or foul it into the stands. In any case, its debut the league is also its exit. In the two cases, sand lot artists will probably have a few whacks at it, but in any event the ingenuity of man has not yet devised a ball that can exist long in association

#### Some of the Many Mean Traits Displayed by Golf Balls and Others

The peculiar form of meanness in which the golf ball delights is concealing itself from view. You are supposed to have your eye on the ball when you address it, but most golfers address it with greater zeal when it is concealed in an area of turf where absolutely impossible to secrete peanut. Revenge is sweet, thinks the golf ball in its little hole, as it listens cheerfully to the sound of the golfer finding it. And vituperating golfer knows that at that particular minute he could knock that particular ball so far that the record drive would look like a mark set for croquet fans. The golf ball has undoubtedly decided upon hiding out as its means of defence because of its comparative indestructibility.

Inquiry into the subject of the manufacture of balls reveals a constant process of Manufacturers strive always to increase the pep of the ball and at the ball started life in 1845 on the Elysian Fields, where Hoboken now is, as a ball weighing six and a half ounces, measuring ten and a half inches in circumference, and containing a centre of two and a half ounces of rubber. It was covered with yarn



and leather. Now it is five to five and a quarter ounces and nine to nine and onequarter inches in circumferance, with a lish game of rounders, the ancestor of base-

As to the number of golf, tennis and baseballs in use, the subject is as wide as the United States and as long as the Mississippi River. It would be hopeless for even a weather prognosticator, who will guess on anything, to estimate, unless equipped with NEW YORK HERALD requested Julian W Curtiss, president of A. G. Spalding & Bros., who probably keeps a keener eye the sporting situation than any other man in the country, to tell approximately

the number of the three types of balls used.

Mr. Curtiss, after considering the question for twenty-four hours, estimated that 300,000 dozen golf balls, 3,600,000 little gutta percha spheres, are demanded yearly by insatiable wielders of the driver and putting iron. Tennis balls, he said, are bought at the rate of about 130,000 dozen, 1,560,000, a year. The great bulk of these are of Ameri-

can manufacture. Concerning baseballs Mr. Curtiss declined to make an estimate. He explained that baseballs range in grade from the \$2.50 cork centre ball used by the major and minor leagues, college teams and other amateur professional players, down to "baseball" made of rags with imitation leather cover retailing around twenty cents and used by juvenile players in back lots.

streets, and meadows all over the country. "Concerning the number of baseballs, can only say that there are many times Mr. Curtiss said. "Of all the baseballs sold every year the number of high grade is relatively low."

To many people the fact that more golf

bails are used yearly than tennis balls comes as a surprise. Golf balls have an air of indestructibility and permanence about them not possessed by the softer tennis bail. The explanation probably is that golfers are really more numerous than the average obimagines, and golf balls lead a harder life at the hands—or clubs—of heavy drivers than would seem possible. Golfers have a habit of hiding away their links in rather secluded places in the suburbs of cities or making of a telescope, Mr. Curtiss said, out in the open country, and their clubs are. The workmen are of the highest type, and

kept in lockers and not displayed so much

upon the streets as tennis racquets.

The tennis player, needing much less space than the golfer, plays in the city or much nearer it in bold disregard of the number who may see him make a beautiful Lawford that almost clears the net, or a lob that lands the ball only a foot or so back of the base line.

Questioned as to the recent comparative increases in the demand for the three types of balls, Mr. Curtiss said that the golf ball has shown the greatest increase of late. In the last six years the demand for these has more than doubled. Both baseballs and tennis 'demanded in greater numbers yearly, but fhey are not so popular as the

One reason why the baseball has not

leaped upward of recent years as much as might be expected is that a great many of the fans confine their enthusiasm for the national pastime to sitting in the shade of the grand stand and exercising their lungs.
"The increase in the demand for balls is not a sure indication of the increasing number of players," Mr. Curtiss said cussing the increase in athletics in this country. "For instance, although the sale of tennis balls does not indicate a great jump in the number of players, there has b large increase in the popularity of this game. Tennis balls of the present day, however, last much longer than the old balls did, so

of course the number of balls per player The old tennis ball had in it a rubber plug, which sometimes became loose or otherwise interfered with play and shortened the life of the ball. ball are joined by a process eliminating this plug and increasing the life of the Another improvement is the cementing on of the cover instead of stitching it on. has been a big gain. Our new processes make possible the elimination of part of the human element in the ball and the substitu-

tion of the surer machine." The big manufacturers of balls compete more keenly than almost any other producers in their efforts to improve The Spalding company, for example, employs experts who work on noth ing else. The manufacture of tennis, golf and base balls is as delicate a process as the